- 7th Grade Science
  - Scientific Inquiry
    - Laboratory Experiences
      - Scientific Method
      - variables
    - Logical Reasoning
      - observations
      - inferences
  - Earth Science
    - Earth Systems, Structures, and Processes
      - Atmosphere
        - composition
        - properties
        - structure
      - Cycling of Water
      - Air Masses, Boundaries, and Pressure Systems
      - Predict weather patterns
        - directly collected weather data
        - weather maps, satellite, and radar
        - cloud shapes and types
      - convection, global winds, and jet stream
        - how effect weather and climate
      - Atmosphere effect on human health
        - monitoring atmosphere
        - maintain air quality
        - stewardship
  - Life Science
    - Structures and Functions of Living Organisms
      - Single Celled organisms
        - compare life functions
          - Euglena
          - Amoeba
          - Paramecium
          - Volvox
      - Animal and Plant organelles
        - compare
          - structure
          - function
      - organization of multi-cellular organisms
        - cells, tissues, organs, systems, organism
      - Major human body systems: Digestion, Respiration, reproduction, excretory, circulatory, immune, nervous, endocrine, and muscular/ skeletal
        - functions
        - interactions between systems
    - Evolution and Genetics
      - Sexual vs. Asexual Reproduction
        - variation
        - meiosis
        - mitosis
      - Heredity
        - Punnett Squares
        - pedigrees
      - Biological Inheritance and survival
        - Environment
        - Lifestyle choices
        - Genetic Diseases
  - Physical Science
    - Force and Motion
      - Explain motion of object
        - using:
          - position
          - direction of motion
          - speed
      - Explain effects of balanced and unbalanced forces
        - including:
          - friction
          - gravity
          - magnets
      - Illustrate the motion of an object
        - using graphs showing change in position over time
      - Interpret distance vs. time graphs
        - constant speed
        - variable motion
    - Energy
      - kinetic and potential energy
      - Explain energy being transformed from one form to another
        - using model or diagram of moving object
      - transfer of energy from one system to another
        - Work
        - electrical circuits
      - Simple Machines